

Complete and send this form, together with applicable fee(s) to: Mail Box ISSUE FEE

Commissioner for Patents
Washington, D.C. 20231
FAX (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawings, must have its own certificate of mailing or transmission.

23494

7590

3/14/2005

W. DANIEL SWAYZE, JR.
TEXAS INSTRUMENTS INCORPORATED
PO BOX 655474, M/S 3999
DALLAS, TX 75265

CERTIFICATE OF MAILING OR TRANSMISSION
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

Sharlet Hurst (Depositor's name)
Sharlet Hurst (Signature)
6-13-05 (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/990,836	11/14/2001	John Bottrill	TI-32770	3032

TITLE OF INVENTION: A PRE-ZERO CROSSING SIGNAL GENERATOR FOR SINUSOIDAL VOLTAGES WITH DC OFFSETS SUCH AS TELEPHONE RING VOLTAGES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$1700	06/14/2005

EXAMINER	ART UNIT	CLASS-SUBCLASS
Pham, Tuan	2643	379-378000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Use of PTO form(s) and Customer Number are recommended, but not required.

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 W. Daniel Swayze, Jr.
2 W. James Brady
3 Frederick J. Telecky, Jr.

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

TEXAS INSTRUMENTS INCORPORATED

PO BOX 655474, M/S 3999
DALLAS, TX 75265

Please check the appropriate assignee category or categories (will not be printed on the patent) ☐ individual ☒ corporation or other private group entity ☐ government

4a. The following fee(s) are enclosed:

☒ Issue Fee
☒ Publication Fee
☐ Advance Order - # of Copies

4b. Payment of Fee(s):

☐ A check in the amount of the fee(s) is enclosed
☐ Payment by credit card. Form PTO-2038 is attached.
☒ The Commissioner is hereby authorized to charge the required fee(s), or credit any overpayment, to Deposit Account Number 20-0668 (enclose an extra copy of this form).

Commissioner for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fees to the application identified above.

(Authorized Signature)

(Date)

Reg. No. 34,478

6-13-2005

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant, a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, D.C. 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMIT THIS FORM WITH FEE(S)

PTOL-85 (REV. 04-02) Approved for use through 01/31/2004. OMB 0651-0033

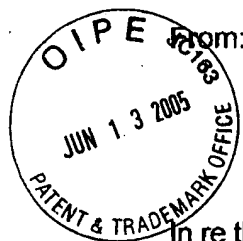
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

06/14/2005 TBESHAH2 00000001 200668 09990836

01 FC:1501 1400.00 DA
02 FC:1504 300.00 DA

To: Box Issue Fee
Facsimile Number: 703-746-4000

Total Pages Sent: 2



From: W. Daniel Swayze, Jr.
Texas Instruments Incorporated
Facsimile: 972-917-4418 / Phone: 972-5633

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of
First Inventor: Bottrill

Docket Number: TI-32770

Serial No.: 09/990,836

Art Unit: 2643

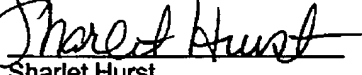
Filed: 11/14/01

Examiner: Pham, Tuan

For: A PRE-ZERO CROSSING SIGNAL GENERATOR FOR SINUSOIDAL
VOLTAGES WITH DC OFFSETS SUCH AS TELEPHONE RING VOLTAGES

CERTIFICATION OF FACSIMILE TRANSMISSION

I hereby certify that the following papers are being transmitted by facsimile to the
U.S. Patent and Trademark Office at 703-746-4000 on the date shown below:


Sharlet Hurst

6-13-05
Date

FACSIMILE COVER SHEET

<input checked="" type="checkbox"/> FACSIMILE COVER SHEET	<input type="checkbox"/> AMENDMENT (# Pages)
<input type="checkbox"/> NEW APPLICATION	<input type="checkbox"/> EOT (# Pages)
<input type="checkbox"/> DECLARATION (# Pages)	<input type="checkbox"/> NOTICE OF APPEAL (# Pages)
<input type="checkbox"/> ASSIGNMENT (# Pages)	<input type="checkbox"/> APPEAL (# Pages)
<input type="checkbox"/> FORMAL DRAWINGS	<input checked="" type="checkbox"/> ISSUE FEE TRANSMITTAL
<input type="checkbox"/> INFORMAL DRAWINGS	<input type="checkbox"/> REPLY BRIEF (IN TRIPLICATE) (# Pages)
<input type="checkbox"/> CONTINUATION APP'N (# Pages)	
<input type="checkbox"/> DIVISIONAL APP'N	
NAME OF INVENTOR(S): Bottrill	
RECEIPT DATE & SERIAL NO.: Serial No.: 09/990,836	
TITLE OF INVENTION: A PRE-ZERO CROSSING SIGNAL GENERATOR FOR SINUSOIDAL VOLTAGES...	
Filing Date: 11/14/2001	
TI FILE NO.: TI-32770	DEPOSIT ACCT. NO.: 20-0668
FAXED: 06/13/05 DUE: 06/14/05 ATTY/SECY: WDS/slh	

This facsimile is intended only for the use of the address named and contains legally privileged and/or confidential information. If you are not the intended recipient of this telecopy, you are hereby notified that any dissemination, distribution, copying or use of this communication is strictly prohibited. Applicable privileges are not waived by virtue of the document having been transmitted by Facsimile. Any misdirected facsimiles should be returned to the sender by mail at the address indicated on this cover sheet.

Texas Instruments Incorporated
PO Box 655474, M/S 3999
Dallas, TX 75265